



Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Texas

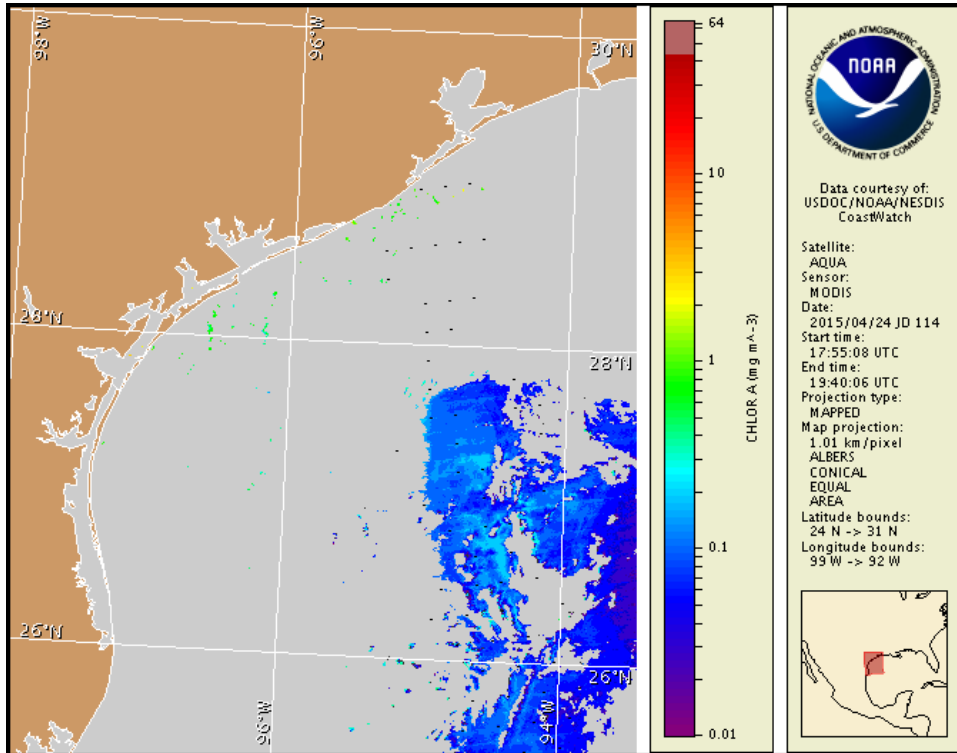
Monday, 27 April 2015

NOAA National Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, April 20, 2015



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from April 17 to 23: red (high), orange (medium), yellow (low), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

http://tidesandcurrents.noaa.gov/hab/habfs_bulletin_guide.pdf

Detailed sample information can be obtained through the Texas Parks and Wildlife Department at:

<http://www.tpwd.state.tx.us/landwater/water/envconcerns/hab/redtide/status.phtml>

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the NOAA Harmful Algal Bloom Operational Forecast System bulletin archive:

<http://tidesandcurrents.noaa.gov/hab/bulletins.html>

Conditions Report

Karenia brevis (commonly known as Texas red tide) ranges from not present to background concentrations along the coast of Texas. No respiratory irritation is expected alongshore Texas Monday, April 27 through Monday, May 4.

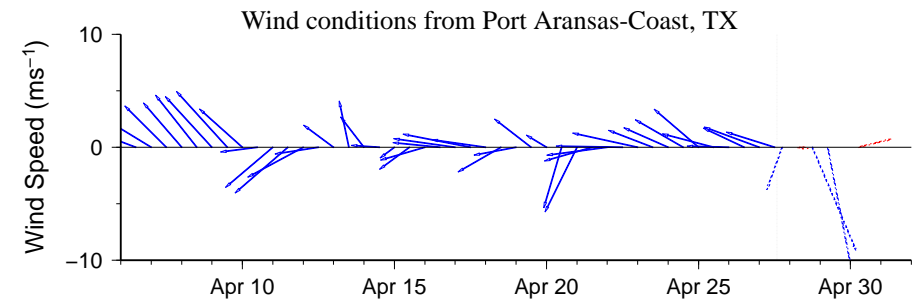
Check http://tidesandcurrents.noaa.gov/hab/beach_conditions.html for recent, local observations.

Analysis

Recent *Karenia brevis* cell concentrations from the Texas A&M University's Imaging FlowCytobot, located on the Port Aransas ship channel, are not currently available. The most recent samples indicated that *K. brevis* concentrations ranged between 'not present' and 'background' (TAMU; 4/13-4/18). For information on area shellfish restrictions, contact the Texas Department of State Health Services.

Over the past week, MODIS Aqua imagery (4/24, shown left) has been completely obscured by clouds from Sabine Pass to the Rio Grande, preventing analysis. Forecast models based on predicted near-surface currents indicate southerly transport of up to 150 km from the Port Aransas region, from April 25-30.

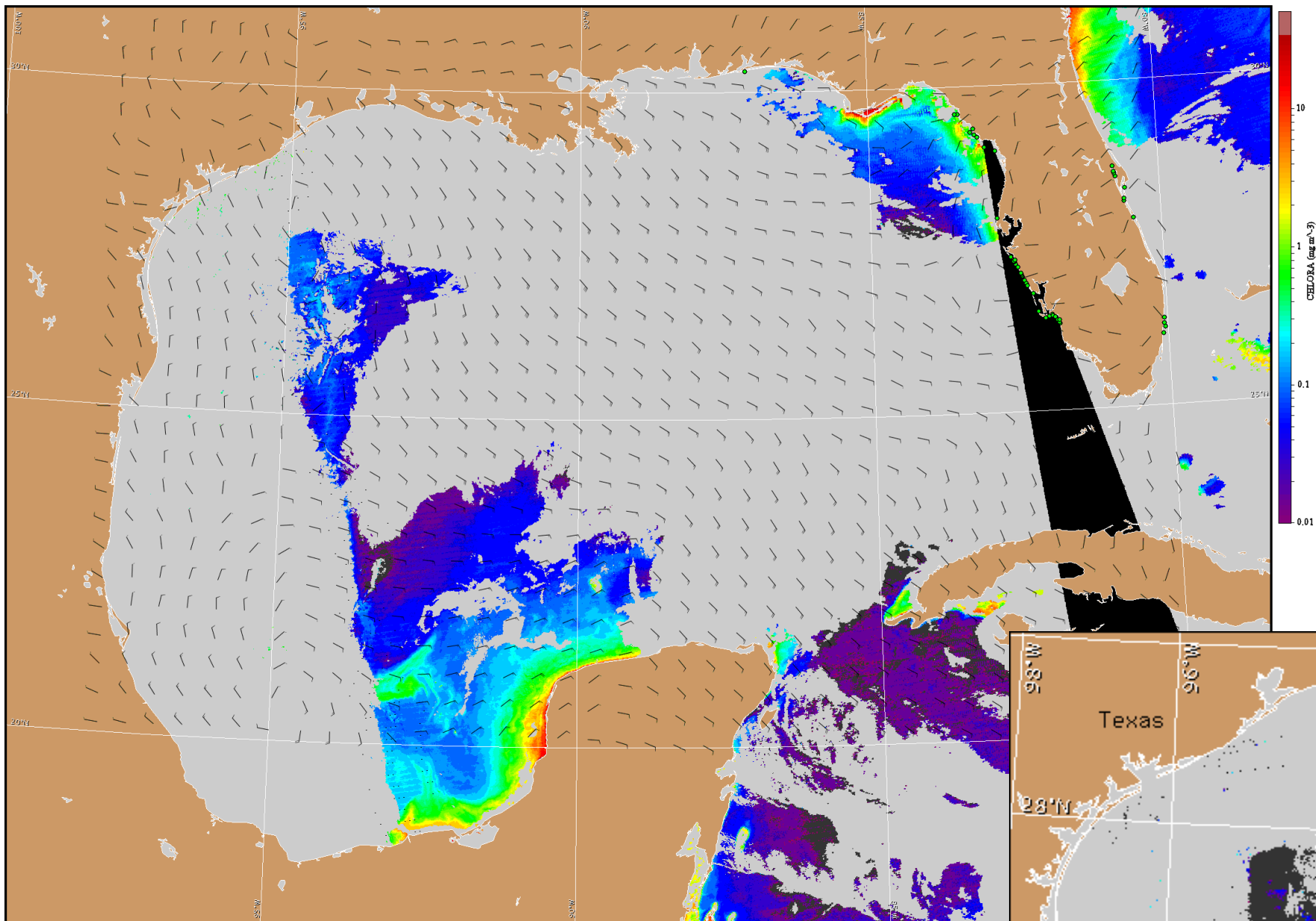
Keeney, Derner



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

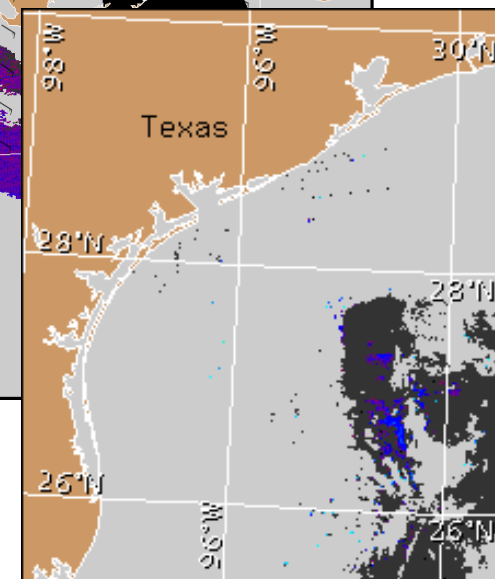
Wind Analysis

Port Aransas: North winds (5-25kn, 3-13m/s) today through Wednesday. Northwest winds (5kn, 3m/s) Thursday becoming northeast Thursday afternoon. South to southeast winds (5-10kn, 3-5m/s) Thursday night through Friday.



Satellite chlorophyll image and forecast winds for April 28, 2015 06Z with points representing cell concentration sampling data from April 17 to 23: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

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Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).